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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/510,028	12/14/2004	Giancarlo Rizzoli	2579.011US1	4654
21186 7590 01/07/2009 SCHWEGMAN, LUNDBERG & WOESSNER, P.A. P.O. BOX 2938 MINNEAPOLIS, MN 55402			EXAMINER	
			MAHYERA, TRISTAN J	
MINNEAPOLI	5, MIN 55402		ART UNIT	PAPER NUMBER
			1615	
			MAIL DATE	DELIVERY MODE
			01/07/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/510,028	RIZZOLI ET AL.
Office Action Summary	Examiner	Art Unit
	TRISTAN J. MAHYERA	1615
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING Description of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutoreriod Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) ☐ Responsive to communication(s) filed on 10 (2a) ☐ This action is FINAL . 2b) ☐ This action is FINAL . 3) ☐ Since this application is in condition for allowated closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) <u>1-56</u> is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) <u>1-56</u> are subject to restriction and/or	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examination.	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Election/Restrictions

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

1 – A specific calcium-containing ceramic particle. The species are given in claims 25-30. A single disclosed species is required to be elected, or a combination of calcium-phosphates, calcium-sulfates and/or calcium-carbonates, where each member of the combination is specifically elected to give a complete and specific calcium-containing particle.

1A – If a calcium-phosphate particle is elected, the molar Ca/P relationship must be disclosed and the claims readable on the relationship identified.

1B – For any calcium-containing particle elected the following properties readable on the election must be identified:

- a) Pore size in claims 7 or 8
- b) Bulk density in claims 12 or 13
- c) Jarring density in claims 15 or 16
- d) Average diameter in claims 18-20 or a specific disclosed combination in claim 21

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2 – A specific hydrogel or substance which can be swelled into a hydrogel consisting of the species in claims 36-39, 43

2A – For any hydrogel elected the following properties readable on the election must be identified:

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- a) Water content in claims 44 or 45
- b) Molecular weight in claims 41, 42, 46, 47 or 48
- c) Weight relationship A/B in claims 51, 52, 53, 54, 55 or 56

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: The common technical feature is not novel. The common technical feature is claim 1 comprising a non-spherical synthetic porous ceramic particle and a hydrogel. A common technical feature known in the art, as is the case here, cannot be a special technical feature. The prior art, e.g. DORIGATTI et al. (WO 93/20858 see PTO/SB/08) teach the use of hyaluronic acid in combination with artificial porous bone granules in a moldable paste to promote growth

and repair of damaged bone tissue. See e.g. abstract, page 6 line 33 to page 7 line 3. While DORIGATTI does not explicitly state non-spherical shapes BEARCROFT et al. (WO 01/66044 see PTO-892) teaches a shaped particle that is non-spherical to repair a bone deficiency whereby the non-spherical shape facilitates interlocking of adjacent particles in a matrix of shaped particles. See e.g. page 8 lines 1-24. Therefore, the technical feature of the groups do not make a contribution over the prior art.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TRISTAN J. MAHYERA whose telephone number is 571-270-1562. The examiner can normally be reached on Monday through Thursday 9am-4pm EST.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, MICHAEL P. WOODWARD can be reached on 571-272-8373. The fax phone number for the organization where this application or proceeding is assigned is

571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tristan J Mahyera/ Examiner, Art Unit 1615 /MP WOODWARD/ Supervisory Patent Examiner, Art Unit 1615